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### [1. 8.5.1TT: NOy Cavity Right-Down Instrument](#)

Release Date: 10-20-2015Open Date: 10-20-2015Due Date: 01-14-2016Close Date: 01-14-2016

Summary: The Patent Pending NOAA NOy-Cavity Ring-Down Spectrometer is a sensitive, compact detector that measures total reactive nitrogen (NOy), as well as NO2, NO and O3 using cavity ring-down spectroscopy (CRDS). This product is unique in that the optical cage system holds four optical cavities (with associated sample cells) and a laser together, allowing a measurement of all four trace gases si ...

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### [2. 8.5.2TT: Smart Module for Communications Processing and Interface](#)

Release Date: 10-20-2015Open Date: 10-20-2015Due Date: 01-14-2016Close Date: 01-14-2016

Summary: Engineers at NOAA's National Data Buoy Center have developed a patent-pending data collection and reporting system, the Smart Module for Communications Processing and Interface, for use on data buoys or similar ocean- or land-based platforms where environmental data are being collected. The benefit of the Smart Module design is that it may be readily retrofitted to a data buoy, weather ...

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### [3. 8.5.3TT: System for Monitoring, Determining, and Reporting Directional Spectra of Ocean Surface Waves in Near Realtime from a Moored Buoy](#)

Release Date: 10-20-2015Open Date: 10-20-2015Due Date: 01-14-2016Close Date: 01-14-2016

Summary: NOAA and a number of other scientific and academic institutions have built and maintained an extensive national network of buoys with the purpose of providing more accurate weather and water forecasts to the public. As a part of this network, NOAA engineers have developed a System for Monitoring, Determining and Reporting Directional Spectra of Ocean Surface Waves from a Moored Buoy, whic ...

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### [4. 8.5: SBIR Tech Transfer \(SBIR-TT\)](#)

Release Date: 10-20-2015Open Date: 10-20-2015Due Date: 01-14-2016Close Date: 01-14-2016

NOy Cavity Right-Down Instrument Smart Module for Communications Processing and Interface System for Monitoring, Determining, and Reporting Directional Spectra of Ocean Surface Waves in Near Realtime from a Moored Buoy 8.5 Department of Commerce ...

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### [5. 8.1: Resilient Coastal Communities and Economies](#)

Release Date: 10-20-2015Open Date: 10-20-2015Due Date: 01-14-2016Close Date:

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01-14-2016

Improving Outcomes of Marine Aquaculture via Genomic Approaches Developing Technologies for Offshore Aquaculture in The United States Orthogonal Stereo Camera System for Visual Fish Surveys 8.1 National Oceanic and Atmospheric Administration Aquaculture G ...

SBIR National Oceanic and Atmospheric Administration Department of Commerce

## **[6. 8.1.1F: Improving Outcomes of Marine Aquaculture via Genomic Approaches](#)**

Release Date: 10-20-2015 Open Date: 10-20-2015 Due Date: 01-14-2016 Close Date: 01-14-2016

Summary: In comparison to human medicine or land based agriculture, the genomic basis for improving marine aquaculture breeding outcomes is in its infancy. Most aquaculture facilities rely on batch spawning and trial and error. There is little chance of identifying individual parents and the specific genetic traits that provide eggs and larvae with superior qualities of growth, feed conversion and ...

SBIR National Oceanic and Atmospheric Administration Department of Commerce

## **[7. 8.1.2F: Developing Technologies for Offshore Aquaculture in The United States](#)**

Release Date: 10-20-2015 Open Date: 10-20-2015 Due Date: 01-14-2016 Close Date: 01-14-2016

Summary: Offshore aquaculture refers to aquaculture in the waters between state maritime boundaries and the end of the Exclusive Economic Zone (EEZ). Offshore aquaculture has the potential to complement wild harvest fisheries, increase our domestic supply of safe, healthy seafood and contribute to resilient coastal communities and economies. There is huge opportunity for offshore aquaculture devel ...

SBIR National Oceanic and Atmospheric Administration Department of Commerce

## **[8. 8.1.3F: Orthogonal Stereo Camera System for Visual Fish Surveys](#)**

Release Date: 10-20-2015 Open Date: 10-20-2015 Due Date: 01-14-2016 Close Date: 01-14-2016

Summary: NOAA Fisheries is mandated to provide the best scientific information available to establish conservation and management measures for the sustainability of our Nation's living marine resources and healthy oceans. One national priority relevant to this mission is the need resolve data-limited fish assessments. Many of the data-limited assessments result directly from the inability to eff ...

SBIR National Oceanic and Atmospheric Administration Department of Commerce

## **[9. 8.2: Healthy Oceans](#)**

Release Date: 10-20-2015 Open Date: 10-20-2015 Due Date: 01-14-2016 Close Date:

01-14-2016

Affordable, lightweight, wireless-control ROV for sustained observation of benthic ecosystems  
Lionfish Control Sensor System for Measuring Oxygen Demands in Natural Waters Innovative  
Multi-Platform Sensor for Marine Debris and Object Detection and Mapping ...

SBIR Department of Commerce

**10. [8.2.1N: Affordable, lightweight, wireless-control ROV for sustained observation of benthic ecosystems](#)**

Release Date: 10-20-2015 Open Date: 10-20-2015 Due Date: 01-14-2016 Close Date:  
01-14-2016

Summary: Conserving coastal places provides economic benefits to local communities. These communities rely on dollars spent on activities such as recreation and tourism. NOAA's National Ocean Service works to conserve marine areas — and preserve the economic benefits of these special places to local communities through its coastal management and place-based conservation programs. National Marine ...

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